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California Environmental Protection Agency .....

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Hazardous Waste Facility Permit

Facility: Chevron U.S.A., Inc.  
841 Chevron Way  
Richmond, CA 94802

Operator: Chevron U.S.A., Inc.  
841 Chevron Way  
Richmond, CA 94802

EPA ID Number: CAD 009 114 919

Effective Date: September 10, 1992

Expiration Date: September 10, 2002

Pursuant to Section 25200 of the California Health and Safety Code, the Hazardous Waste Facility Permit is hereby issued to Chevron U.S.A., Inc.

The issuance of this permit is subject to the conditions set forth in Attachment A which consists of 29 pages (and any other exhibits).



*Charlene F. Williams*  
Charlene F. Williams, Chief  
Facility Permitting Branch  
Region 2

Date: August 10, 1992



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## Part V Compliance Schedule

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ATTACHMENT A

Hazardous Waste Facility Permit

CHEVRON U.S.A. INCORPORATED  
841 CHEVRON AVENUE  
RICHMOND, CALIFORNIA 94802  
EPA ID No.: CAD009114919

I. DESCRIPTION OF FACILITY

A. Ownership, Operations, and Location

The Chevron U.S.A. - Richmond Refinery is located at 3601 Union Road, at latitude 37°55'19" and longitude 121°23'02", in the City of Richmond. The facility is owned and operated by Chevron U.S.A. Incorporated, a subsidiary of Chevron Corporation.

The owner/operator will provide on-site storage, and treatment of hazardous wastes. Hazardous wastes to be handled include acids, caustics, ignitables, solvents, reactive materials, and organic or oily wastes. Detailed information on these wastes can be found in Section V of the Part B Application. The waste management activities for which this Permit is issued include storage and treatment in containers, and storage and treatment in tanks. Treatment of hazardous wastes will consist of oxidation, stabilization and neutralization of solid wastes in containers, and neutralization, oxidation, metal precipitation, and phase separation of liquid wastes tanks.

B. Compliance With California Environmental Quality Act (CEQA)

A Negative Declaration has been prepared for this project.

#### IV. CORRECTIVE ACTION

##### A. SUMMARY OF RFA FINDINGS/RESULTS

Listed below are the fifty-four Solid Waste Management Units (SWMU's) identified in the January 1988 report, "RCRA Facility Assessment, Chevron Richmond Refinery, Richmond, California", (RFA). Section E describes the ongoing corrective action. Sections F. through Q. describe the corrective action procedures that will go into affect if additional SWMU's, or new contamination at existing SWMU's is identified.

##### Solid Waste Management Units

Unit 1 - Hydropits/Schaefer Slough  
Unit 2 - Lake Schramm  
Unit 3 - Effluent Ponds and Sump  
Unit 4 - No. 1 Separator  
Unit 5 - No. 2 Separator  
Unit 6 - No. 13 Separator  
Unit 7 - No. 15 Separator  
Unit 8 - CPI Separator  
Unit 9 - Two New API Separators No. 1A and No. 2A and Associated Containers  
Unit 10 - Pollard Pond  
Unit 11 - Pond 11  
Unit 12 - Pond 13  
Unit 13 - Pond 13A  
Unit 14 - Pond 14  
Unit 15 - Big Wheels Site  
Unit 16 - TEL Site  
Unit 17 - Five Landfarms (RCRA regulated)  
Unit 18 - Landfill under Isomax and Landfarm 1  
Unit 19 - Landfill under 250 Foot Channel  
Unit 20 - Landfill under Landfarms 2 and 3  
Unit 21 - Landfill 15  
Unit 22 - Phthalic Anhydride Site  
Unit 23 - Gertrude Street  
Unit 24 - Nickel Catalyst Piles  
Unit 25 - Parr Richmond Site  
Unit 26 - FCC Catalyst Silo V-13  
Unit 27 - Two Drum Reconditioning Plant Wastewater Tanks  
Unit 28 - Hazardous Waste Storage/Treatment Facility (RCRA regulated)  
Unit 29 - Old Drum Storage Facility  
Unit 30 - PCB Warehouse (RCRA regulated)  
Unit 31 - Old PCB Warehouse  
Unit 32 - Sulfur Recovery Unit Neutralization Pit

Unit 33 - Sulfox Unit  
Unit 34 - Boiler Shop Two Heat Exchanger Bundle Cleaning  
Tanks  
Unit 35 - Industrial Drainage System  
Unit 36 - Baker Tanks at Landfarms  
Unit 37 - Wastewater Sump at Drum Reconditioning Plant  
Unit 38 - Three Baker Tanks at Drum Reconditioning Plant  
Unit 39 - Baker Tanks for Temporary Wastewater Storage  
Unit 40 - No. 7 sump  
Unit 41 - Three Sour Water Strippers  
Unit 42 - Two Recovered Oil Tanks at Utilities Division  
Unit 43 - Sand-Blast Area  
Unit 44 - Three Stormwater Runoff Ponds: Lake Rushing,  
Impound Basin and Lake Meade  
Unit 45 - Electrostatic Precipitator  
Unit 46 - CO Boiler  
Unit 47 - Vacuum Trucks  
Unit 48 - Alkane Plant  
Unit 49 - Bulk Storage Tanks, Refinery-Wide  
Unit 50 - Refinery Pipe Trenches  
Unit 51 - Drum Reconditioning Plant  
Unit 52 - Sulfuric Acid Tank (at 14 Foot Channel)  
Unit 53 - Clay Filter Area  
Unit 54 - Caustic Tanks, Alkane Plant

B. DEFINITIONS

For purposes of this Corrective Action Schedule of Compliance the following definitions shall apply:

"Facility" means all contiguous property under the control of the owner and/or operator seeking a permit under CCR, Title 22.

"Regional Administrator" means the Regional Administrator of the California Environmental Protection Agency, Department of Toxic Substances Control, Region 2, or his designee or authorized representative.

"Release" means any spilling, leaking, pouring, emitting, emptying, discharging, injecting, pumping, escaping, leaching, dumping, or disposing of hazardous wastes (including hazardous constituents) into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing hazardous wastes or hazardous constituents).

"Solid waste management unit" means any discernible unit at

Location and Tank #	Tank Storage Capacity (gallons)	Type of Tank	Type of Wastes Stored	Treatment Type and Capacity Gallons per day (gpd)
Area III OS20	16,800	Carbon Steel	See above	Included above
Area III OS30	16,800	Carbon Steel	See above	Included above
Area V B-101SD	21,000	Carbon Steel	Process Sludges, Sour Water Tank Bottom Sludge, Spent Solvents, Spent MEA, B-3 Settling Basin Sludges, API Separator Waste Sludges, Heat Exchanger Sludges, Leaded Tank Bottom Sludge, Non-Leaded Tank Bottom Sludge,	Storage and Phase Separation
Area V B-102SD	21,000	Carbon Steel	See above	Included above
Area V B-103SD	21,000	Carbon Steel	See above	Included above
Area V 604NSD	21,000	Carbon Steel	See above	Included above
Area V 680NSD	21,000	Carbon Steel	See Above	Included above
Area V 871SD	21,000	Carbon Steel	See above	Included above
Area V 1224SD	21,000	Carbon Steel	See above	Included above
Area V 1329SD	21,000	Carbon Steel	See above	Included above

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Location and Tank #	Tank Storage Capacity (gallons)	Type of Tank	Type of Wastes Stored	Treatment Type and Capacity Gallons per day (gpd)
Area V 1452SD	21,000	Carbon Steel	See above	Included above
Area V 1455SD	21,000	Carbon Steel	See above	Included above

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Storage Area	Secondary Containment Capacity	Hazardous Waste Capacity	Waste Stored
Room V	250 gallons	14 55- or 85-gallon drums	Corrosives
Room VI	250 gallons	14 55- or 85-gallon drums	Polychlorinated Biphenyls
Area IV Solid Waste	218,049 gallons	2 1.25-cubic yard roll-off bins	Industrial Debris
Area IV Solid Waste	see above	20 20-cubic yard roll-off bins	Industrial Debris, Jet Filter Clay, Spent Catalyst, Deliquification Process Cakes, Waste Corrosive Solids

Containers holding hazardous wastes shall be stored only in the areas designated above. The owner or operator shall not store hazardous wastes exceeding the maximum inventory as specified above. The maximum inventory is based on single stacking of containers.

Treatment in containers will occur only in the roll-off bins described in Table III-1. This treatment will consist of oxidation of up to 8,100 gallons per day of pyroforic materials, stabilization of up to 8,100 gallons per day of semi-solid wastes, and neutralization of up to 8,100 gallons per day of corrosive solids.

b. Storage and Treatment in Tanks

The owner and/or operator shall store and treat hazardous waste in tanks in accordance with the requirements of CCR, Title 22, Division 4.5, Chapter 14, Article 10.

The owner and/or operator can store and/or treat hazardous wastes only in the tank(s) designated below. The owner or operator shall not store hazardous wastes exceeding the maximum inventory as specified below.

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TABLE III-2

Location and Tank #	Tank Storage Capacity (gallons)	Type of Tank	Type of Wastes Stored	Treatment Type and Capacity Gallons per day (gpd)
Area II	6,500	Polyethylene	Sulfuric Acid, Phosphoric Acid, Chemical Cleaning Solutions	Storage and Neutralization (21,000 gpd)
Area II	6,500	Polyethylene	See above	Included above
Area III 869NSD	21,000	Carbon Steel	Process Equipment Sludge, Leaded Tank Bottom Sludge, Non-Leaded Tank Bottom Sludge, pH Adjusted Liquids, Quench Water, Sour Water Tank Bottom Sludge	Storage Only
Area III 760NSD	21,000	Carbon Steel	See above	Storage Only
Area III 1699SD	21,000	Carbon Steel	See above	Storage Only
Area III 1658SD	21,000	Carbon Steel	See above	Storage Only
Area III 1299SD	21,000	Carbon Steel	See above	Storage Only
Area III OS10	16,800	Carbon Steel	See above	Storage and Precipitation, Flocculation and Sedimentation (67,200 gpd); Oxidation (21,000 gpd)

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### III. SPECIAL CONDITIONS

#### Storage in Containers

Two areas will be used to store containerized hazardous wastes:

Area I - Drummed waste is stored within two prefabricated metal buildings. Each building has three segregated rooms for storage of up to fourteen 55-gallon drums each. Each room has a built in sump to contain spills or leaks.

Area IV - Solid wastes are stored in 20-cubic yard steel and 1.25-cubic yard polyethylene roll-off bins. Bins are stored outdoors on a reinforced concrete pad with a 100 mil polyplex liner.

#### Treatment in Containers

Treatment in containers includes oxidation of pyroforic materials, stabilization of semi-solid waste, and neutralization of corrosive solids and is further described below.

##### Oxidation of Pyroforic Materials:

Up to 8,100 gallons per day of pyroforic materials is oxidized using an air lance. Temperature is constantly monitored and the material may be quenched with water to prevent uncontrolled reactions. Water is removed after the oxidation is complete.

##### Stabilization of Semi-Solid Waste:

Up to 8,100 gallons per day of semi-solid wastes is stabilized using materials such as cement, clay or diatomaceous earth. The stabilization material is mixed in with a backhoe or similar equipment.

##### Neutralization of Corrosive Solids:

Calcium hydroxide or ferric sulfate is added to the container and is mixed in with a backhoe.

#### Storage in Tanks

Hazardous wastes will be stored for up to one year in tanks. The tanks have secondary containment which can hold more than 10% of the total volume of waste stored plus the rainfall from a 24 hour-25 year storm. Tanks are portable but are not moved when containing hazardous waste.

There are no waste feed cut-offs or overfill controls on these tanks. The tanks are filled manually using pumps.

TREATMENT IN TANKS

Liquid wastes will be treated in tanks. Treatment methods shall include neutralization, oxidation of sulfidic wastes, metal precipitation, flocculation, sedimentation, and phase separation. Filtration and dewatering are not included in this Permit. Tanks are portable but are not moved when containing hazardous waste.

A. Prohibition of Disposal

Pursuant to H&SC Section 25203, hazardous wastes shall not be disposed of at the facility unless such disposal is properly authorized by the Department under a permit or grant of interim status.

B. Permitted and Prohibited Waste Identification

1. Permitted Wastes

a. Storage and Treatment in Containers

This permit authorizes the owner and/or operator to store the following wastes in containers at the facility, subject to the conditions of this permit, the requirements of CCR, Title 22, Division 4.5, Chapter 14, Article 9, and as follows:

TABLE III-1

Storage Area	Secondary Containment Capacity	Hazardous Waste Capacity	Waste Stored
Area I Drummed Wastes			
Room I	250 gallons	14 55- or 85-gallon drums	Reactives
Room II	250 gallons	14 55- or 85-gallon drums	Ignitable Solids
Room III	250 gallons	14 55- or 85 gallon drums	Ignitable Liquids
Room IV	250 gallons	14 55- or 85-gallon drums	Oxidizers

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environment immediately upon becoming aware of the incident.

8. Incomplete and/or Incorrect Information

Where the owner and/or operator becomes aware that any relevant facts were not submitted in a permit application, or incorrect information was submitted in a permit application or in any report to the Department, the owner and/or operator shall promptly submit such facts or information.

O. Signatory Requirement

1. The owner and operator shall comply with the signatory requirements in CCR, Title 22, Section 66270.11, for all applications, reports or information submitted to the Department.
2. The owner and operator shall provide documentation of an agreement for operation of the facility between the property owner and the facility owner, if different from the property owner.

P. Waste Minimization Certification

The owner and/or operator shall certify annually, by March 1 for the previous year ending December 31, that:

1. The facility has a program in place to reduce the volume and toxicity of all hazardous wastes listed in Section V of the Application which are generated by the facility operations to the degree, determined by the owner and/or operator, to be economically practicable.
2. The method of storage, treatment, or disposal is the only practicable method or combination of methods currently available to the facility which minimizes the present and future threat to human health and the environment.

The owner and/or operator shall make this certification, in accordance with CCR, Title 22, Section 66270.11. The owner and/or operator shall submit the certification to the appropriate Department Regional Administrator and shall record and maintain on-site such certification in the facility Operating Record.

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Q. Waste Minimization Conditions

1. The owner and/or operator shall comply with the Hazardous Waste Source Reduction and Management Review Act requirements that are specified in the H&SC, Sections 25244.19, 25244.20 and 25244.21, and any subsequent applicable promulgations.
2. The owner and/or operator shall submit a copy of all reviews, plans, plan summaries, reports and report summaries required by Section II.Q.1 above, to the appropriate Department Regional Administrator by September 1, every four years starting with September 1995.

The appropriate Department Regional Administrator may require the facility to submit a more detailed status report explaining any deviation from, or changes to, approved waste minimization plan.

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facility in accordance with the Part B Permit Application.

3. In the event of any conflict between this permit and the Part B Permit Application referenced herein, the most stringent provisions shall be controlling.
4. The Part B Permit Application and this permit shall be maintained at the facility and place of business at all times until closure is completed.

N. General Responsibilities of Operator

1. Compliance

The owner and/or operator shall comply with all conditions of this permit in accordance with CCR, Title 22, Section 66270.30(a). The owner or operator shall comply with all laws, regulations, permits, zoning conditions, and all other requirements established by federal, state, and local agencies.

2. Transfer of the Permit

This permit may be transferred to a new owner or operator only if it is modified or revoked and reissued pursuant to CCR, Title 22, Section 66270.40. The owner and/or operator shall notify the appropriate Department Regional Administrator, in writing, of a proposed change in ownership of this facility no later than 90 days prior to the proposed date of transfer. A copy of the notification, required under CCR, Title 22, Section 66264.12(c), informing the new owner or operator of the requirements of this permit and CCR, Title 22, Division 4.5, Chapters 14 and 20, shall be submitted to the Department.

3. Operation and Maintenance

- a. The facility shall be maintained at all times and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
- b. All equipment, pipes, and lines used at the facility to handle, transfer, pump, or store hazardous wastes shall be maintained in a manner that prevents the leaking and spilling of hazardous wastes.

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- c. The owner and/or operator shall at all times properly operate and maintain all facilities and systems of treatment and control in accordance with CCR, Title 22, Section 66270.30(e).

4. Submittal of Requested Information

The owner and/or operator shall furnish to the Department, within the time specified by the Department in its request, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The owner or operator shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

5. Hazardous Waste List

The owner and/or operator shall maintain a current list of hazardous wastes that are handled by the facility. The owner and/or operator shall, as necessary, update the hazardous waste list presented in the approved Part B Permit Application, in accordance with the permit modification requirements contained in CCR, Title 22, Section 66270.42 (a), (b) or (c). Any additions to the list must be approved by the Department, in accordance with the requirements of CCR, Title 22, Sections 66270.41 and/or 66270.42, prior to their inclusion.

6. Anticipated Noncompliance

The owner and/or operator shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements, in accordance with CCR, Title 22, Section 66270.30(1)(2).

7. Noncompliance

In the event of noncompliance with the permit, the owner and/or operator shall take all reasonable steps to minimize or correct releases to the environment, and shall carry out all measures as are reasonable to prevent and correct adverse impacts on human health or the environment. The owner or operator shall report to the California Office of Emergency Services (800) 852-7550 any circumstances that may endanger public health or the



demonstrations, waste analyses data, and other documentation related to the management of all wastes (for on-site or off-site treatment, storage or disposal) subject to land disposal restrictions.

The owner and/or operator shall retain on-site, a current waste analysis plan describing how and when wastes or treatment residues will be tested to comply with the land disposal restriction regulations.

F. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the owner and/or operator for a permit modification, revocation and reissuance, or termination or a notification of anticipated noncompliance or planned changes (except as provided in CCR, Title 22, Section 66270.42(a)), does not stay any permit condition. Except as provided in CCR, Title 22, Section 66270.42(a), a new facility permit condition or a modification of an existing facility permit condition shall become effective on the date specified in the Department's written notice of approval of the permit modification, pursuant to CCR, Title 22, Sections 66270.42 and/or 66271.14.

G. Need to Halt or Reduce Activity

It shall not be a defense for the owner and/or operator in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

H. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

I. Permit Expiration

In accordance with CCR, Title 22, Section 66270.51, this permit and all conditions therein will remain in effect beyond the permit expiration or termination date, until the effective date of a new permit, if the owner or operator has submitted a timely and complete application (both Part A and Part B) for a new permit and, through no fault of the owner or operator, the Department has not issued a new permit. In accordance with

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CCR, Title 22, Section 66270.10(h), a timely and complete application for a new permit shall be submitted at least 180 days before this permit expires, unless permission for a later date is granted in writing by the Department.

J. 24-Hour Reporting

The owner and/or operator shall report to the Department any incidents of noncompliance, with the conditions of this permit and any of the provisions of CCR, Title 22, Division 4.5 or H&SC, Division 20, Chapter 6.5, which may endanger health or the environment, pursuant to the reporting requirements in CCR, Title 22, Section 66270.30(1)(6).

K. Notice of Planned Physical Changes and Certification of Construction

The owner and/or operator shall give notice to the Department as soon as possible, and at least 30 days in advance of, any planned physical alterations or additions to the permitted facility. In addition, prior to commencement of the treatment, storage, or transfer of hazardous wastes at a new facility or modified portion of an existing facility, the owner and/or operator shall comply with the requirements contained in CCR, Title 22, Section 66270.30(1)(2).

L. Operation at Night

When the facility is operated during hours of darkness, the owner and/or operator shall provide sufficient lighting to ensure safe, effective management of hazardous wastes.

M. Part B Application (Operation Plan) of the Hazardous Waste Facility Permit Application

1. By the issuance of this permit, the Part B Permit Application, titled Operation Plan/RCRA Permit Application for the Chevron Hazardous Waste Storage and Treatment Facility at the Richmond Refinery, dated June 8, 1990, and as revised August 28, 1990 and November 12, 1991 is hereby approved. This Part B Permit Application and any subsequent revisions thereto, subject to the permit modification requirements contained in CCR, Title 22, Sections 66270.41 and 66270.42, are by this reference made part of this permit. Specific sections of this Part B Permit Application are referenced elsewhere in this permit.

2. The owner and/or operator shall operate and maintain the

## II. GENERAL CONDITIONS

### A. Effect of Permit

1. The issuance of this permit by the California Department of Toxic Substances Control (Department) does not release the owner or operator from any liability or duty imposed by federal or state statutes and regulations or local ordinances, except the obligation to obtain this permit. In particular, unless otherwise specifically provided in this permit, the owner or operator shall comply with the provisions of the Health and Safety Code (H&SC), Division 20, Chapter 6.5 and the California Code of Regulations (CCR), Title 22, Division 4.5.
2. Issuance of this permit by the Department does not prevent the Department from adopting or amending regulations, issuing administrative orders, or obtaining judicial orders which impose requirements which are in addition to or more stringent than those in existence at the time this permit was issued, and does not prevent the enforcement of these requirements against the owner and/or operator of the facility. The owner or operator shall comply with any such additional or more stringent requirements in addition to the requirements and conditions specified in the permit. Where appropriate, this permit is also subject to H&SC Sections 25159.5 and 25159.6 relating to the incorporation of Federal regulations in the absence of equivalent State regulations.
3. This permit does not convey any property rights of any sort, or any exclusive privilege.

### B. Requirement to Submit Information

All information, reports, submittals, or notices required by the Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) permit shall be submitted, if applicable, to the appropriate Department Regional Administrator.

### C. Consent to Entry by Department Representatives

The owner and operator, by accepting this permit, consent to entry by any authorized representative of the Department or of the local health officer at any reasonable hour of the day in

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order to carry out the purposes of the Hazardous Waste Control Law, Health and Safety Code section 25100 et seq., including but not limited to the activities listed in CCR, Title 22, Section 66270.30(i).

D. Specific Conditions

1. The owner and/or operator shall provide financial responsibility, if applicable, in accordance with CCR, Title 22, Division 4.5, Article 8 of Chapter 14 and Sections 66264.801 and 66270.40(b). Documentation of financial assurance shall be submitted to:

Department of Toxic Substances Control  
Attn: Surveillance and Enforcement Branch Chief  
Region 2  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710

2. The owner and/or operator shall comply with the general facility standards contained in CCR, Title 22, Division 4.5, Chapter 14, Article 2.
3. The owner and/or operator shall comply with preparedness and prevention requirements contained in CCR, Title 22, Division 4.5, Chapter 14, Article 3.
4. The owner and/or operator shall comply with the contingency plan and emergency procedure requirements contained in CCR, Title 22, Division 4.5, Chapter 14, Article 4.
5. The owner and/or operator shall comply with the manifest system, recordkeeping and reporting requirements contained in CCR, Title 22, Division 4.5, Article 5 of Chapter 14 and Section 66270.30(1) (7), (8) and (9).
6. The owner and/or operator shall comply with the closure and, if applicable, post-closure requirements contained in CCR, Title 22, Division 4.5, Chapter 14, Article 7.

E. Land Disposal Restrictions

The owner and/or operator shall comply with applicable provisions of the land disposal restrictions as found in CCR, Title 22, Division 4.5, Chapter 18.

The owner and/or operator shall retain on-site, until closure of the facility, a copy of all notices, certifications,

which solid wastes have been placed at any time, irrespective of whether the unit was intended for the management of solid or hazardous waste. Such units include any area at a facility at which solid wastes have been routinely and systematically released.

"Hazardous waste" means a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed. The term hazardous waste includes hazardous constituent as defined below.

"Hazardous constituent" means any constituent identified in Appendix VIII of CCR, Title 22, Section 66261, or any constituent identified in Appendix IX of CCR, Title 22, Section 66264.

All references herein to Unit Numbers are found in "RCRA Facility Assessment, Chevron Richmond Refinery, Richmond, California", January 1988.

#### C. STANDARD CONDITIONS

1. Section 25200.10 of the California Health and Safety Code requires that permits address corrective action of all releases of hazardous wastes including hazardous constituents from any solid waste management unit (SWMU) at the facility, regardless of when the waste was placed in the unit.
2. Failure to submit the information required in this Corrective Action Schedule of Compliance, or falsification of any submitted information, is grounds for termination of this Permit (22 CCR 66270.43). The owner and/or operator shall ensure that all plans, reports, notifications, and other submissions to the Regional Administrator required in this Corrective Action Schedule of Compliance are signed and certified in accordance with 22 CCR 66270.11. Two (2) copies of these plans, reports, notifications or other submissions shall be submitted to the Regional Administrator and sent by certified mail or hand delivered to:

Regional Administrator  
California Environmental Protection Agency  
Department of Toxic Substances Control  
Region 2  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710

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3. All plans and schedules required by the conditions of this Corrective Action Schedule of Compliance are, upon approval of the Regional Administrator, incorporated into this Schedule of Compliance by reference and become an enforceable part of this Permit. Any noncompliance with such approved plans and schedules shall be termed noncompliance with this Permit. Extensions of the due dates for submittals may be granted by the Regional Administrator in accordance with the permit modification processes under 22 CCR 66270.41.
  4. If the Regional Administrator determines that further actions beyond those provided in this Corrective Action Schedule of Compliance, or changes to that which is stated herein, are warranted, the Regional Administrator shall modify the Schedule of Compliance either according to procedures in Permit Condition IV.K. of this Permit, or according to the permit modification processes under 22 CCR 66270.41.
  5. All raw data, such as laboratory reports, drilling logs, bench-scale or pilot-scale data, and other supporting information gathered or generated during activities undertaken pursuant to this Corrective Action Schedule of Compliance shall be maintained at the facility during the term of this Permit, including any reissued Permits.

D. REPORTING REQUIREMENTS

1. Upon specific request by the Regional Administrator, the owner and/or operator shall submit signed progress reports of all activities conducted pursuant to the provisions of this Corrective Action Schedule of Compliance. These progress reports shall be submitted to the Regional Administrator within 30 days after request by the Regional Administrator. These reports shall contain:
  - a. A description of the work completed;
  - b. Summaries of all findings, including summaries of laboratory data;

c. Summaries of all problems or potential problems encountered during the reporting period and actions taken to rectify problems; and

d. Projected work for the next reporting period.

2. Copies of other reports (e.g., daily reports, inspection reports), drilling logs and laboratory data shall be made available to the Regional Administrator upon request.

3. As specified under Permit Condition IV.C.4., the Regional Administrator may require the owner and/or operator to conduct new or more extensive assessments, investigations, or studies, as needed, based on information provided in these progress reports or other supporting information.

E. CORRECTIVE ACTION REQUIRED FOR EXISTING SWMU'S

The United States Environmental Protection Agency and Chevron U.S.A. are parties to RCRA §3008(h) Consent Order No. RCRA-09-89-0010. The Order, which became effective on June 18, 1990, requires that Chevron U.S.A. investigate hazardous waste releases at the facility. Under the Order, Chevron U.S.A. will: (1) perform a RCRA Facility Investigation (RFI) to determine fully the nature and extent of any release of hazardous waste and hazardous constituents at or from the facility and (2) develop a Corrective Measures Study (CMS) to identify and evaluate alternatives for the corrective action necessary to prevent or mitigate any releases of hazardous wastes or constituents at or from the facility. As part of the RFI, Chevron U.S.A. will investigate any releases from SWMU's at the facility. Not all 54 SWMU's have had releases or require further investigation.

The requirements of this RCRA Consent Order are hereby incorporated into this Permit. All submissions pursuant to the Order shall be submitted to the Regional Administrator as specified in Permit Condition IV.C.2.

F. NOTIFICATION REQUIREMENTS FOR AND ASSESSMENT OF NEWLY-IDENTIFIED SOLID WASTE MANAGEMENT UNIT(S)

1. The owner and/or operator shall notify the Regional Administrator in writing of any newly-identified SWMU(s), not specifically identified during the RFA and listed in Section A, discovered during the course of groundwater monitoring, field investigations, environmental audits, or other means, no later than fifteen (15) calendar days after discovery.

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2. After such notification, the Regional Administrator may request, in writing, that the owner and/or operator prepare a Solid Waste Management Unit (SWMU) Assessment Plan and a proposed schedule of implementation and completion of the Plan for any additional SWMU(s) discovered subsequent to the issuance of this Permit.
  3. Within forty-five (45) calendar days after receipt of the Regional Administrator's request for a SWMU Assessment Plan, the owner and/or operator shall prepare a SWMU Assessment Plan for determining past and present operations at the unit, as well as any sampling and analysis of ground water, land surface and subsurface strata, surface water or air, as necessary to determine whether a release of hazardous waste including hazardous constituents from such unit(s) has occurred, is likely to have occurred, or is likely to occur. The SWMU Assessment Plan must demonstrate that the sampling and analysis program, if applicable, is capable of yielding representative samples and must include parameters sufficient to identify migration of hazardous waste including hazardous constituents from the newly discovered SWMU(s) to the environment.
  4. After the owner and/or operator submits the SWMU Assessment Plan, the Regional Administrator shall either approve or disapprove the Plan in writing.

If the Regional Administrator approves the Plan, the owner and/or operator shall begin to implement the Plan within fifteen (15) calendar days of receiving such written notification.

If the Regional Administrator disapproves the Plan, the Regional Administrator shall either (1) notify the owner and/or operator in writing of the Plan's deficiencies and specify a due date for submittal of a revised Plan, or (2) ~~revise the Plan and notify the owner and/or operator of the revisions.~~ This Regional Administrator-revised Plan becomes the approved SWMU Assessment Plan. The owner and/or operator shall implement the Plan within fifteen (15) calendar days of receiving written approval.

5. The owner and/or operator shall submit a SWMU Assessment Report to the Regional Administrator no later than thirty (30) calendar days from completion of the work specified in the approved SWMU Assessment Plan. The SWMU Assessment Report shall describe all results obtained from the implementation of the approved SWMU Assessment Plan. At a



minimum, the Report shall provide the following information for each newly identified SWMU:

- a. The location of the newly-identified SWMU in relation to other SWMU's;
- b. The type and function of the unit;
- c. The general dimensions, capacities, and structural description of the unit (supply any available drawings);
- d. The period during which the unit was operated;
- e. The specifics on all wastes that have been or are being managed at the SWMU, to the extent available; and
- f. The results of any sampling and analysis required for the purpose of determining whether releases of hazardous wastes including hazardous constituents have occurred, are occurring, or are likely to occur from the unit.

6. Based on the results of this Report, the Regional Administrator shall determine the need for further investigations at specific unit(s) covered in the SWMU Assessment. If the Regional Administrator determines that such investigations are needed, the Regional Administrator may require the owner and/or operator to prepare a plan for such investigations.

G. NOTIFICATION REQUIREMENTS FOR NEWLY-DISCOVERED RELEASES AT SWMU'S

The owner and/or operator shall notify the Regional Administrator, in writing, of any release(s) of hazardous waste including hazardous constituents discovered during the course of ground-water monitoring, field investigation, environmental auditing, or other activities undertaken after the commencement of the RFI, no later than fifteen (15) calendar days after discovery. Such newly-discovered releases may be from newly-identified units, from units for which, based on the findings of the RFA, the Regional Administrator had previously determined that no further investigation was necessary, or from units investigated as part of the RFI. The Regional Administrator may require further investigation of the newly-identified release(s).

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H. INTERIM MEASURES

1. If, during the course of any activity initiated under this Corrective Action Schedule of Compliance, the Regional Administrator determines that a release or potential release of hazardous waste including hazardous constituents from a SWMU poses a threat to human health and the environment, the Regional Administrator may specify interim measures. The Regional Administrator shall determine the specific action(s) that must be taken to implement the interim measure, including potential permit modifications and the schedule for implementing the required measures. The Regional Administrator shall notify the owner and/or operator in writing of the requirement to perform such interim measures. The Regional Administrator shall modify the Corrective Action Schedule of Compliance either according to procedures in Section IV.K. of this Permit, or according to the permit modification procedures under 22 CCR 66270.41, to incorporate such interim measures into the Permit.
2. The following factors may be considered by the Regional Administrator in determining the need for interim measures:
- a. Time required to develop and implement a final remedy;
  - b. Actual and potential exposure of human and environmental receptors;
  - c. Actual and potential contamination of drinking water supplies and sensitive ecosystems;
  - d. The potential for further degradation of the medium absent interim measures;
  - e. Presence of hazardous waste in containers that may pose a threat of release;
  - f. Presence and concentration of hazardous waste including hazardous constituents in soils that have the potential to migrate to ground water or surface water;
  - g. Weather conditions that may affect the current levels of contamination;
  - h. Risks of fire, explosion, or accident; and

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- i. Other situations that may pose threats to human health and the environment.

#### I. REMEDY SELECTION

1. Based on the results of the CMS and any further evaluations of additional remedies under this study, the Regional Administrator shall select a remedy from the remedial alternatives evaluated in the CMS that will (1) be protective of human health and the environment; (2) meet the concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment; (3) control the source(s) of release(s) so as to reduce or eliminate, to the maximum extent practicable, further releases that might pose a threat to human health and the environment; and (4) meet all applicable waste management requirements.
2. In selecting the remedy which meets the standards for remedies established under Permit Condition IV.H.1., the Regional Administrator shall consider the following evaluation factors, as appropriate:
  - a. Long-term reliability and effectiveness. Any potential remedy(s) may be assessed for the long-term reliability and effectiveness it affords, along with the degree of certainty that the remedy will prove successful. Factors that shall be considered in this evaluation include:
    - i. Magnitude of residual risks in terms of amounts and concentrations of waste remaining following implementation of a remedy, considering the persistence, toxicity, mobility and propensity to bioaccumulate of such hazardous wastes including hazardous constituents;
    - ii. The type and degree of long-term management required, including monitoring and operation and maintenance;
    - iii. Potential for exposure of humans and environmental receptors to remaining wastes, considering the potential threat to human health and the environment associated with excavation, transportation, redisposal or containment;
    - iv. Long-term reliability of the engineering and

institutional controls, including uncertainties associated with land disposal of untreated wastes and residuals; and

v. Potential need for replacement of the remedy.

b. Reduction of toxicity, mobility, and volume. A potential remedy(s) may be assessed as to the degree to which it employs treatment that reduces toxicity, mobility or volume of hazardous wastes including hazardous constituents. Factors that shall be considered in such assessments include:

- i. The treatment processes the remedy(s) employs and materials it would treat;
- ii. The amount of hazardous wastes including hazardous constituents that would be destroyed or treated;
- iii. The degree to which the treatment is irreversible; and
- iv. The residuals that will remain following treatment, considering the persistence, toxicity, mobility and propensity to bioaccumulate of such hazardous wastes including hazardous constituents.

c. The short-term effectiveness of a potential remedy may be assessed considering the following:

- i. Magnitude of reduction of existing risks;
- ii. Short-term risks that might be posed to the community, workers, or the environment during implementation of such a remedy, including potential threats to human health and the environment associated with excavation, transportation, and redisposal or containment; and
- iii. Time until full protection is achieved.

d. Implementability. The ease or difficulty of implementing a potential remedy(s) may be assessed by considering the following types of factors:

- i. Degree of difficulty associated with constructing the technology;

- ii. Expected operational reliability of the technologies;
  - iii. Need to coordinate with and obtain necessary approvals and permits from other agencies;
  - iv. Availability of necessary equipment and specialists; and
  - v. Available capacity and location of needed treatment, storage and disposal services.
- e. Cost. The types of costs that may be assessed include the following:
- i. Capital costs;
  - ii. Operation and maintenance costs;
  - iii. Net present value of capital and operation and maintenance costs; and
  - iv. Potential future remedial action costs.

J. PERMIT MODIFICATION FOR REMEDY

1. Based on information the owner and/or operator submits in the RFI Final and Summary Reports, the CMS Final Report and other information, the Regional Administrator will select a remedy and initiate a major permit modification to this Permit, pursuant to 22 CCR 66270 Subpart D.

The modification shall specify the selected remedy and include, at a minimum, the following:

- a. Description of all technical features of the remedy that are necessary for achieving the standards for remedies established under Permit Condition IV.I.1., including length of time for which compliance must be demonstrated at specified points of compliance;
- b. All concentration levels of hazardous constituents in each medium that the remedy must achieve to be protective of human health and the environment;
- c. All requirements for achieving compliance with these concentration levels;
- d. All requirements for complying with the standards for

management of wastes;

- e. Requirements for removal, decontamination, closure, or post-closure of units, equipment, devices or structures that will be used to implement the remedy;
  - f. A schedule for initiating and completing all major technical features and milestones of the remedy; and
  - g. Requirements for submission of reports and other information.
2. Within one hundred and twenty (120) calendar days after this Permit has been modified, the owner and/or operator shall demonstrate financial assurance for completing the approved remedy.

**K. MODIFICATION OF THE CORRECTIVE ACTION SCHEDULE OF COMPLIANCE**

- 1. If at any time the Regional Administrator determines that modification of the Corrective Action Schedule of Compliance is necessary, he or she may initiate a modification to the Schedule of Compliance according to the procedures of this Section. If the Regional Administrator initiates a modification, he or she shall:
  - a. Notify the owner and/or operator in writing of the proposed modification and the date by which comment on the proposed modification must be received; and
  - b. Publish a notice of the proposed modification in a locally distributed newspaper, mail a notice to all persons on the facility mailing list maintained according to 22 CCR 66124.10(c)(1)(viii), and place a notice in the facility's information repository (i.e., a central source of all pertinent documents concerning the remedial action, usually maintained at the facility or some other public place, such as a public library, that is accessible to the public) if one is required.
    - i. If the Regional Administrator receives no written comment on the proposed modification, the modification shall become effective five (5) calendar days after the close of the comment period.
    - ii. If the Regional Administrator receives written comment on the proposed modification, the Regional

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Administrator shall make a final determination concerning the modification after the end of the comment period.

c. Notify the owner and/or operator in writing of the final decision.

i. If no written comment was received, the Regional Administrator shall notify individuals on the facility mailing list in writing that the modification has become effective and shall place a copy of the modified Corrective Action Schedule of Compliance in the information repository, if a repository is required for the facility.

ii. If written comment was received, the Regional Administrator shall provide notice of the final modification decision in a locally distributed newspaper and place a copy of the modified Corrective Action Schedule of Compliance in the information repository, if a repository is required for the facility.

2. Modifications that are initiated and finalized by the Regional Administrator according to this procedure shall not be subject to administrative appeal.
3. Modifications to the Corrective Action Schedule Compliance do not constitute a reissuance of the Permit.

**The owner and/or operator shall submit reports as follows:**

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Chevron U.S.A. Inc. CA 09114919  
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V Compliance Schedule

With in 30 days of the effective date of this Permit the owner and/or operator must submit to the Regional Administrator a certification signed by a registered professional engineer in the State of California which states that the containment for Area II meets the standards in 22 CCR 66264.195.

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